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PHOTOGRAPHIC INTERPRETATION BRIEF

# OPERATIONAL SUPPORT ANALYSIS ICBM LAUNCH COMPLEX YUR'YA, USSR



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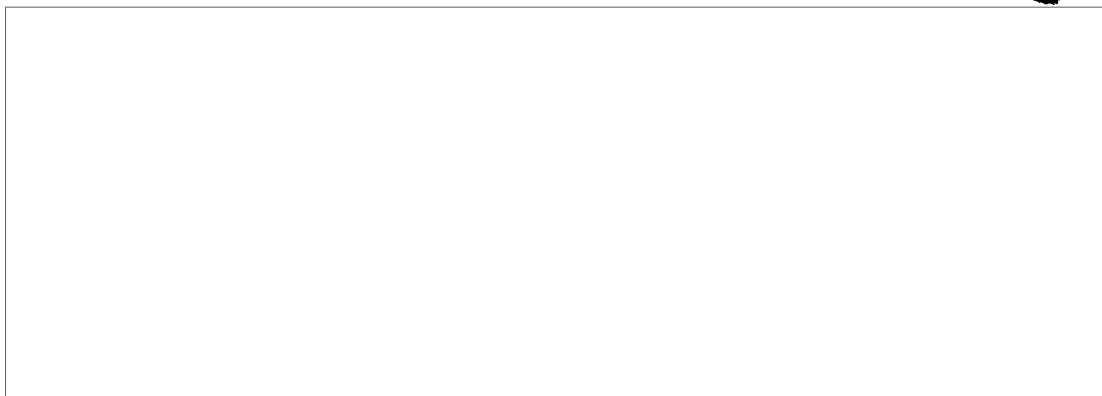
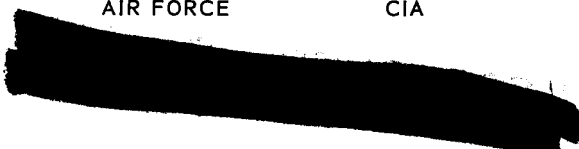
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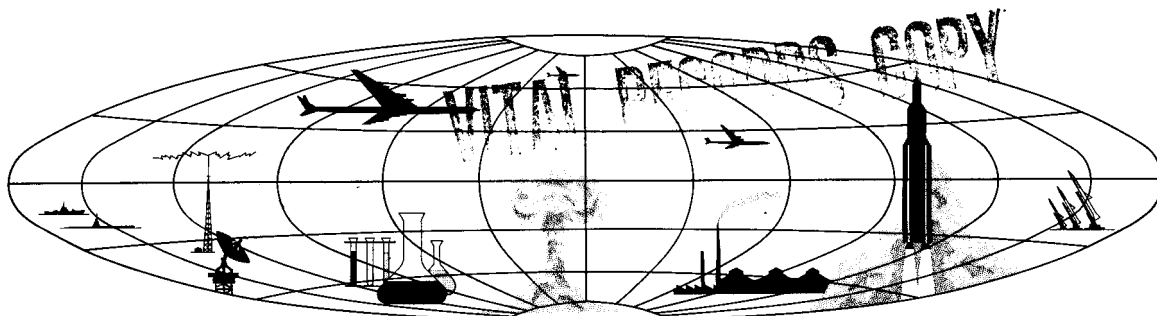


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OPERATIONAL SUPPORT ANALYSIS  
ICBM LAUNCH COMPLEX, YUR'YA, USSR

To determine the most likely operational support pattern for the Yur'ya ICBM Launch Complex, the Complex 1/ was re-examined and compared with the prototype site (Launch Complex C) at Tyura Tam. 2/, 3/ Also, the urban areas of Yur'ya and Kirov, the Kirov-Murashi main rail line, and the branch rail line to the Yur'ya Complex were studied in an attempt to identify any additional operational support facilities associated with the Complex.

The Yur'ya ICBM Launch Complex is basically a self-supporting installation containing missile-handling facilities, housing, and other support facilities. Any item which is delivered to the Complex comes primarily by rail but could come by either rail or road.

As previously reported, the Yur'ya Complex has certain features which are similar to those of the prototype site (Launch Complex C) at Tyura Tam (Figure 1). However, the Yur'ya Complex is not an exact duplicate of the prototype at Tyura Tam. Certain modifications will probably always be apparent in any deployed ICBM complex which is identified. Table 1 presents a comparison of the operational support procedures at both Yur'ya and Launch Complex C, Tyura Tam.

A thorough search was made around Kirov and Yur'ya and of the rail line between Kirov and Murashi for missile support areas. No secured areas were noted in the cloud-free portions. Approximately 30 percent of the 50-nautical-mile stretch of rail line was cloud covered; the majority of this cloud cover is in the vicinity of Yur'ya, which is the most likely candidate for the location of any additional missile support facilities.

Along the rail line between Yur'ya and the ICBM Complex are five areas of activity (not described in NPIC/R-1/61) 1/ which are associated either with the Complex or the town of Yur'ya (Figure 2). Dense cloud shadow and indistinct images prohibited an accurate interpretation. These areas are described as follows:

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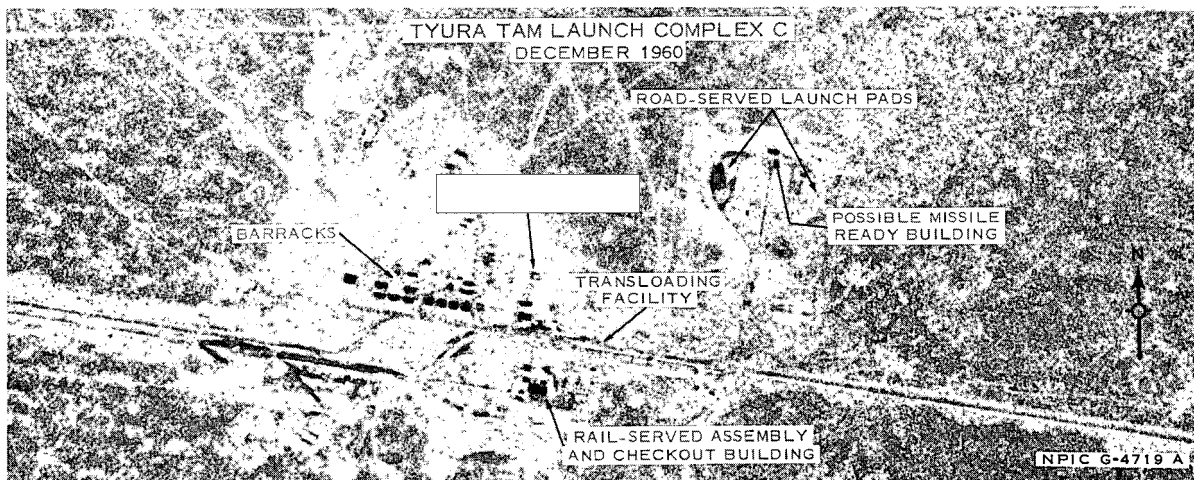
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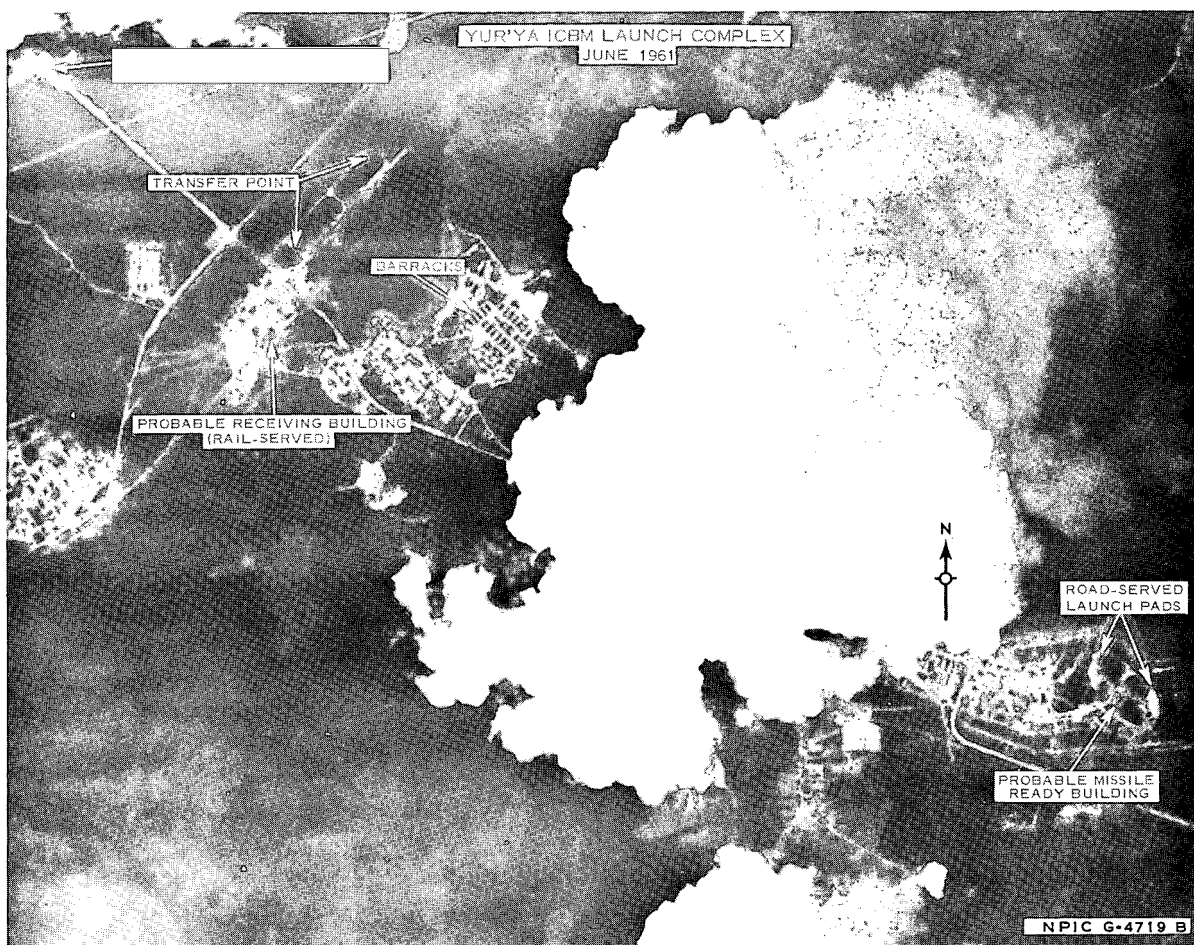
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FIGURE 1. LOCATION OF SIGNIFICANT ITEMS IDENTIFIED AT THE PROTOTYPE ICBM SITE AND AT A DEPLOYED ICBM LAUNCH COMPLEX.

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Table 1. Comparison of Operational Support Procedures at Yur'ya and Tyura Tam.

Item	Yur'ya	Tyura Tam
Method of missile delivery to complex	Primarily via rail	Primarily via rail
Missile receiving facility	Rail-served receiving building (approx 190 by 125 feet)	Rail-served assembly and check-out building <span style="border: 1px solid black; display: inline-block; width: 100px; height: 1em; vertical-align: middle;"></span> 25X1
Missile assembly/checkout point	Probably receiving building	Assembly and checkout building
Missile transloading procedure	Taken by rail out of receiving building to elaborate transfer point	One of two methods: 1. Transloaded inside assembly building 2. Taken by rail to relatively simple transloading facility
Method of missile delivery and distance to launch area from transfer point	By road; 2 to 7 miles	By road; approx 1 mile
Missile-handling procedure within launch areas	One of two methods: 1. Taken directly to the launch point and checked out 2. Taken to the probable missile ready building (approx 170 feet long), checked out, and temporarily stored before being moved to the launch point	One of two methods: 1. Taken directly to the launch point and checked out 2. Taken to the possible missile ready building (160 by 45 feet), checked out, and temporarily stored before being moved to the launch point
Method of warhead and re-entry vehicle delivery to complex	One of two methods: 1. Shipped by air to nearby airfield at Kirov (cloud covered) and brought by road to the complex 2. Shipped by rail to the complex	One of two methods: 1. Shipped by air to airfield at Tyura Tam and brought by road to the complex 2. Shipped by rail to the complex
Warhead and re-entry vehicle handling procedure	Most likely procedure: Storage, assembly, and check-out, possibly at the isolated, secured, and road-served U/I area (mostly cloud covered) Taken by road to the receiving building or the launch area and mated to the missile	Most likely procedure: Storage, assembly, and check-out in the possible warhead handling facility. Taken by road to the assembly building or the launch area and mated to the missile
Propellant storage and handling procedure	Received by rail at the centralized secure storage facility, and moved by truck to the launch area	Received by rail at the launch area

Area 1. This area is contiguous to a large clouded area which covers the town of Yur'ya. It is possible that the area, which contains at least six buildings (150 by 60 feet), and one building 185 by 150 feet, is part of Yur'ya. None of these buildings appear to be rail served.

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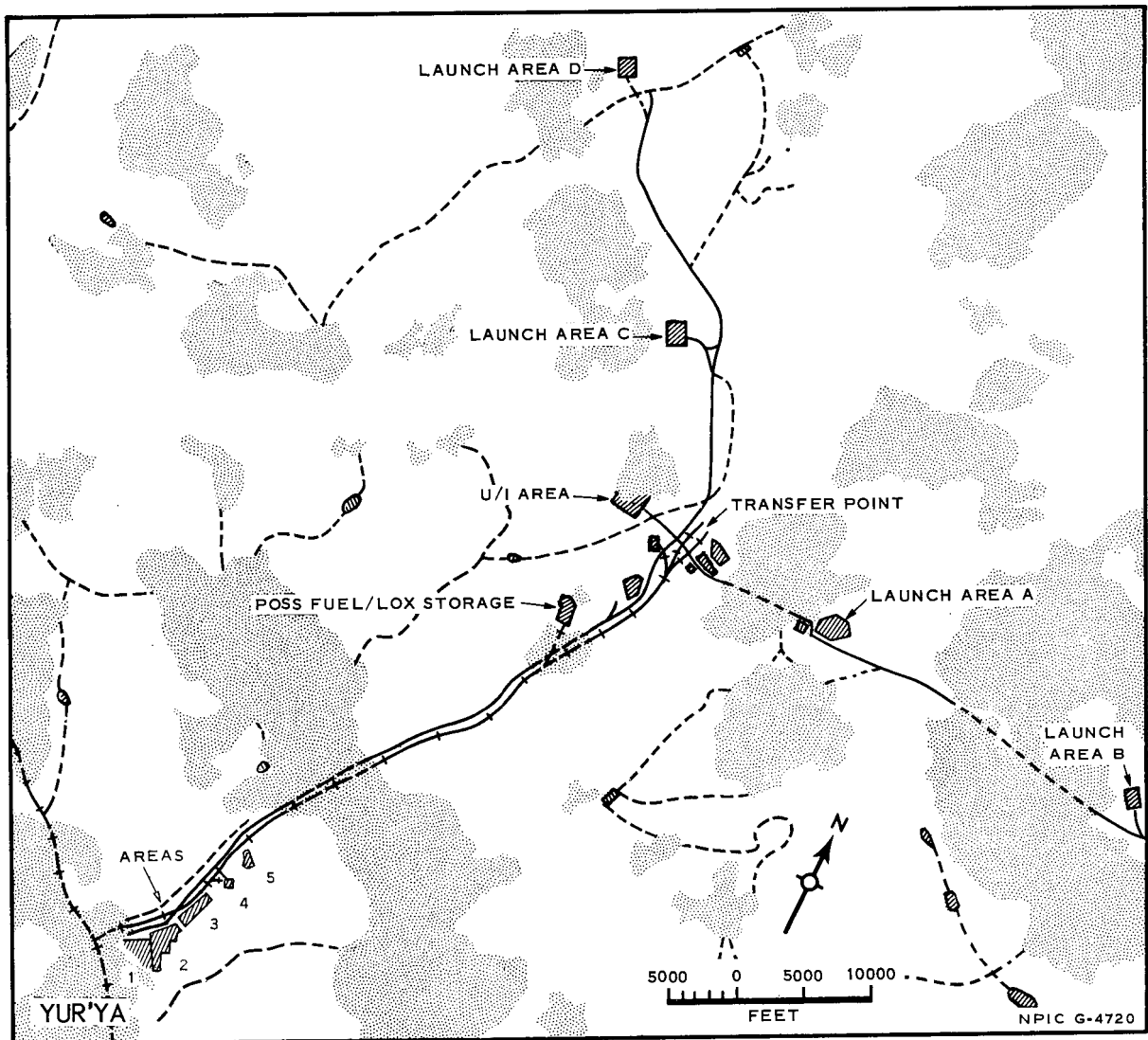


FIGURE 2. LOCATION OF FIVE PREVIOUSLY UNREPORTED AREAS ALONG THE RAIL SPUR SERVING THE ICBM COMPLEX.

Area 2. This area, immediately east of Area 1, contains at least 25 structures laid out in a block pattern which appear to be family-type dwellings. This area may also be part of the town of Yur'ya.

Area 3. This is a rectangular area of extensive ground scarring, 2,500 by 600 feet, just north of Area 2. No structures can be identified in this area.

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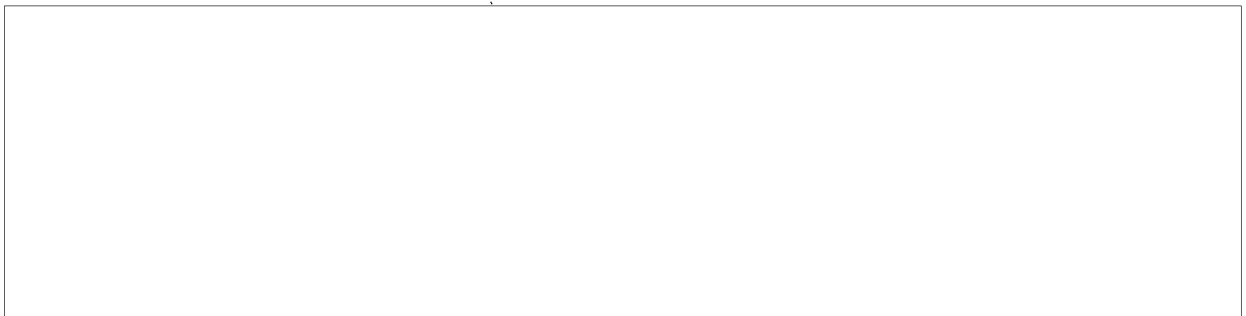
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Area 4. This area consists of a rail spur and a loop road system which encloses an area 1,000 by 500 feet. The area does not appear fenced. The only other item identified in the area is a building approximately 125 by 75 feet. The rail spur terminates adjacent to the west side of this building. There is an extensive amount of ground scarring within the area enclosed by the loop road.

Area 5. This area is a borrow pit probably used for fill material for the road and the railroad to the Complex.

## REFERENCES

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## DOCUMENTS

1. NPIC. R-1/61, ICBM Launch Complex, Yur'ya, USSR, Jul 61 (TSCR)
2. CIA. PIC/JR-17/60, New Launch Area and Other Developments, Missile Launching Complex, Tyura Tam, USSR, Jul 60 (TSC)
3. CIA. PIC/JR-8/61, Tyura Tam Missile Test Center, USSR - A Comparison of [REDACTED] Photography, Aug 61 (TSCR) 25X1

## REQUIREMENT

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